

A new species of the spider genus *Pelecopsis* Simon, 1864 (Aranei Linyphiidae) from South Siberia

Новый вид пауков рода *Pelecopsis* Simon, 1864 (Aranei Linyphiidae) из Южной Сибири

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KEY WORDS: *Pelecopsis*, new species, South Siberia.

КЛЮЧЕВЫЕ СЛОВА: *Pelecopsis*, новый вид, Южная Сибирь.

ABSTRACT. *Pelecopsis palmgreni* sp.n. is described from South Siberia. It seems to be especially closely related to the circum-Holarctic *P. mengei* (Simon, 1884).

РЕЗЮМЕ. Из Южной Сибири описан *Pelecopsis palmgreni* sp.n. По-видимому, новый вид наиболее близок к циркумголарктическому *P. mengei* (Simon, 1884).

Four species of *Pelecopsis* Simon, 1864 have been known to occur in Siberia [Eskov, 1994]: *P. dormiana* Heimer, 1987, *P. mengei* (Simon, 1884), *P. parallela* (Wider, 1834), and *P. paralleloides* Tanasevitch & Fet, 1986. Scanning through some material collected in southeastern Tuva, Siberia in 1996, we have come across a species provisionally identified as *P. mengei*. However, a closer examination has revealed that it belongs in fact to a different, still undescribed species. Its description is given below.

Material of *P. mengei* from various Russian museums and Eskov's private collection has been checked for comparative purposes. Furthermore, the record of *P. mengei* in northeastern Kazakhstan has been found to actually belong to the new species.

Material has been shared between/returned to the collections of the Institute for the Systematics and Ecology of Animals, Novosibirsk (ISEA), Zoological Museum of the Moscow State University (ZMUM), Institute of Biological Problems of the North, Magadan (IBPN), Yuri Marusik, Magadan (YMC) and Jörg Wunderlich, Straubenhardt (JWC). All measurements are given in millimeters.

Pelecopsis palmgreni sp.n. Figs 1, 2, 5, 6.

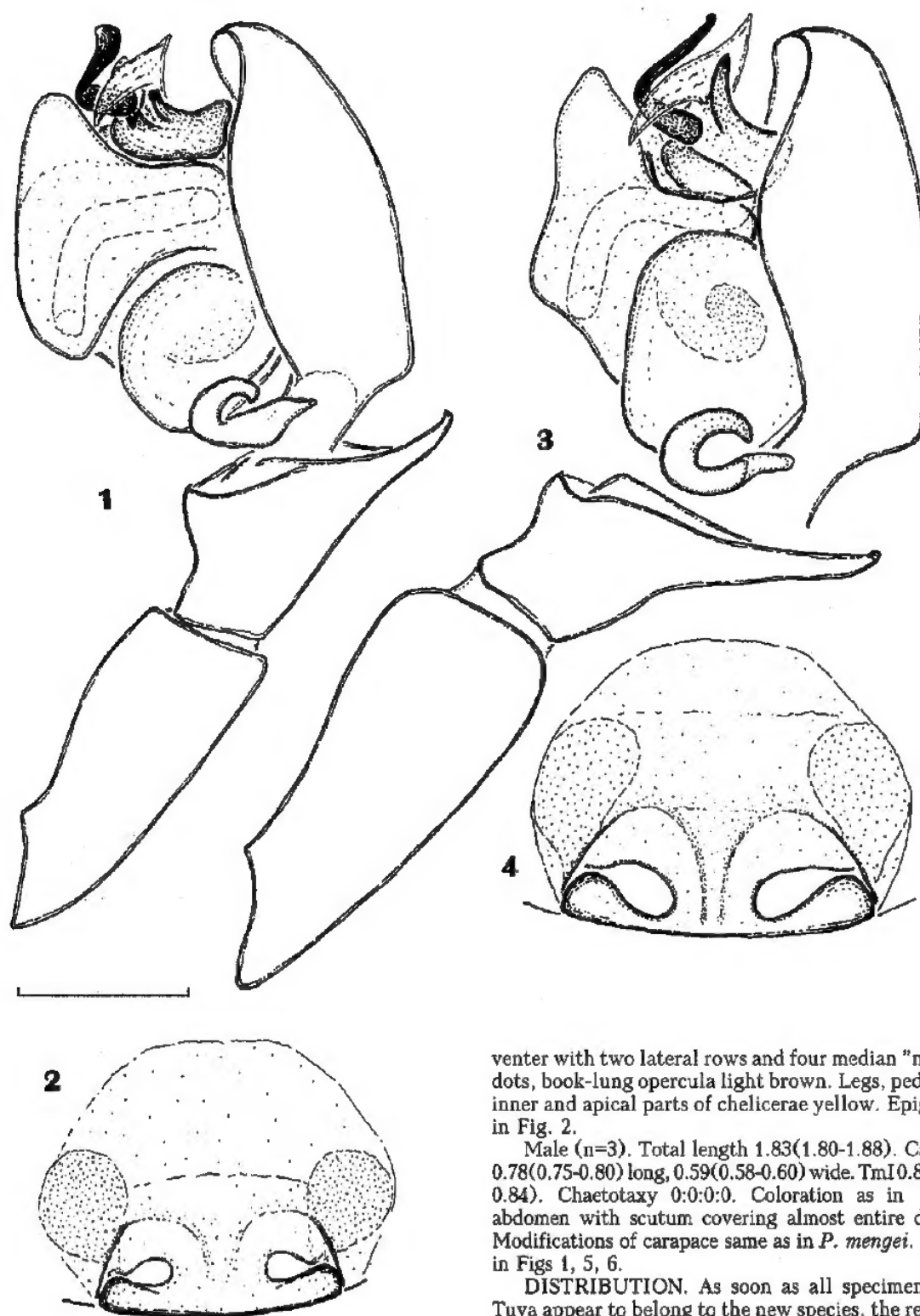
P. mengei: Eskov & Marusik, 1994 (probable misidentification), Eskov & Marusik, 1995 (misidentification).

MATERIAL. Holotype ♂ and paratypes 4 ♂♂, 5 ♀♀ (ISEA), RUSSIA, SE Tuva, upper flow of Balyktyg-Khem River, along road between 50°17'N 96°39'E (2000 m) and 50°19'N 96°30'E (2300 m), 4-5.VII.1996, leg. Yu.M. Marusik (YMM). — Paratypes: 2 ♀♀ (JWC), same locality, 26.VI.1996 leg. YMM; 2 ♂♂ 5 ♀♀ (YMC), SE Tuva, middle flow of Kargy River, 50°31'N 97°03'E, 1400 m, 28-30.VI.1996, leg. YMM; 2 ♂♂, 2 ♀♀ (ZMUM), 4 ♂♂, 12 ♀♀ (YMC), upper flow of Kargy River, 50°25'N 96°41'E, 2230 m, pitfall traps in larch forest with moss, 28.VI-4.VII.1996, leg. YMM & D.V. Obydov; 2 ♂♂ (YMC), SE Tuva, Sanghelen Mt. Range, upper flow of Dzhen-Aryk River, 50°29'N 95°25'E, 1750 m, 16-18.VII.1996, leg. YMM; 3 ♀♀ (YMC), Sanghelen Mt. Range, 50°29'N 95°24'E, 2030 m, mountain bush tundra, 16-18.VII.1996, leg. YMM. KAZAKHSTAN: 1 ♂, 2 ♀♀ (ZMUM), East-Kazakhstan Area, Saur Mt. Range, environs of Zaisan, Dzheminey Gorge, 17.VI.1989, leg. S.V. Ovchinnikov.

NAME. Honours the late Prof. Pontus Palmgren, an outstanding Finnish zoologist.

DIAGNOSIS. The new species is closely related to *P. mengei*, from which it can be distinguished by the shorter tibial apophysis (tibia length/wides ratio 2.0 and 2.3, respectively), the relatively shorter and thinner palpal patellae, the rounded tegulum and its outgrowth (an angulated tegulum and its outgrowth in *P. mengei*), the smaller tooth of the embolic division, the shorter embolus, the less strongly curved seminal duct, as well as by the smaller epigyne and the wider stem of the median plate.

DESCRIPTION. Female. Measurements (mean (min-max); n=10). Total length 2.17(2.00-2.50). Carapace 0.80(0.73-0.85) long, 0.66(0.60-0.70) wide. TmI 0.84(0.81-0.86). Chaetotaxy 1:1:1:1, macrosetae short. Coloration: carapace and sternum dark brown; abdomen dark grey with a light brown ring around spinnerets. Dorsum with four dark brown "muscle" dots,



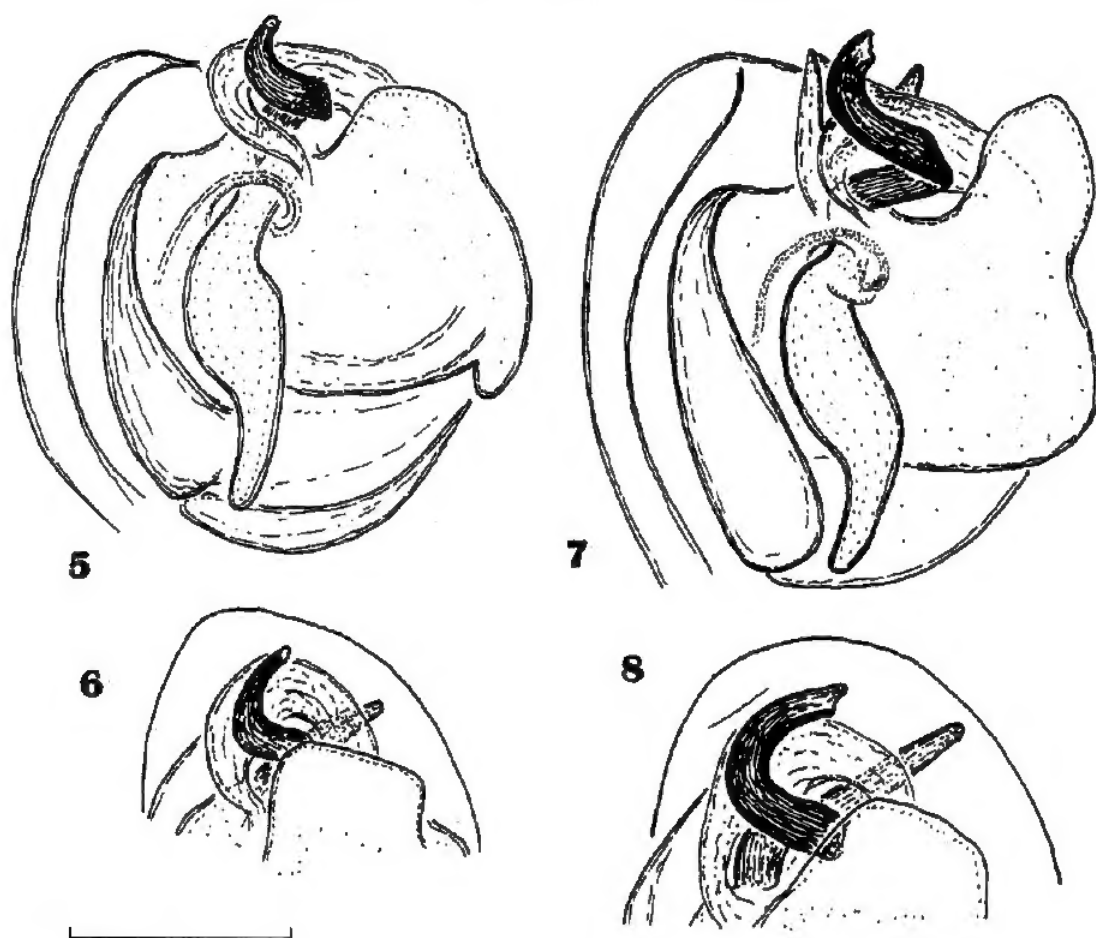
Figs 1-4. Copulatory organs of *Pelecopsis palmgreni* sp.n. (1-2) and *P. mengei* (Simon, 1884) (3-4). 1, 3 — palp, retrolateral view; 2, 4 — epigyne, ventral view. Scale 0.1 mm.

Рис. 1-4. Копулятивные органы *Pelecopsis palmgreni* sp.n. (1-2) и *P. mengei* (Simon, 1884) (3-4). 1, 3 — пальпа, вид сбоку; 2, 4 — эпигина, вид снизу. Масштаб 0,1 мм.

venter with two lateral rows and four median "muscle" dots, book-lung opercula light brown. Legs, pedipalps, inner and apical parts of chelicerae yellow. Epigyne as in Fig. 2.

Male (n=3). Total length 1.83(1.80-1.88). Carapace 0.78(0.75-0.80) long, 0.59(0.58-0.60) wide. TmI 0.82(0.80-0.84). Chaetotaxy 0:0:0:0. Coloration as in ♀, but abdomen with scutum covering almost entire dorsum. Modifications of carapace same as in *P. mengei*. Palp as in Figs 1, 5, 6.

DISTRIBUTION. As soon as all specimens from Tuva appear to belong to the new species, the record of *P. mengei* in Tuva by Eskov & Marusik [1994] most is probably to be referred to *P. palmgreni*. Since the currently known encounters are restricted to Tuva and the Saur Mt. Range, East Kazakhstan, i.e. with a vast geographical gap in between, *P. palmgreni* is very likely to be more widely distributed at least in South Siberia.



Figs 5-8. Bulbus of *Pelecopsis palmgreni* sp.n. (5-6) and *P. mengei* (Simon, 1884) (7-8). 5, 7 — prolateral view; 6, 8 — apical part, ventral view. Scale 0.1 mm.

Рис. 5-8. Бульбусы *Pelecopsis palmgreni* sp.n. (5-6) и *P. mengei* (Simon, 1884) (7-8). 5, 7 — вид сбоку; 6, 8 — верхинная часть, вид снизу. Масштаб 0,1 мм.

Pelecopsis mengei (Simon, 1884)

Figs 3, 4, 7, 8.

MATERIAL EXAMINED. RUSSIA: ♂♂, ♀♀ (IBPN), NE Siberia, Magadan Area, upper flow Ola River, Ola River and Bulum Spring, 15-18.VII.1991, leg. YMM. CANADA, Yukon Territory: 3 ♂♂, 6 ♀♀ (YMC), Lake Kluane, Cultus Bay, 61°11'N 138°20'W, 4000', willow grove with Gramineae on N slope near ridge, 13.VII.1993, leg. YMM; 1 ♀ (YMC), Lake Kluane, Cultus Bay, 61°11'N 138°20'W, small lake on moraine, 2600', 15.VII.1993, leg. YMM; 2 ♀♀ (YMC), Lake Kluane, Cultus Bay, 61°11'N 138°20'W, Rat Lake, willow groves with *Equisetum* and *Carex* on swampy bank, 23.VII.1993, leg. YMM; 1 ♂ (YMC), Lake Kluane, Christmas Bay, 61°03'N 138°21'W, willows, 22.VII.1993, leg. YMM; 1 ♀ (YMC), Lake Kluane, Christmas Bay, 61°03'N 138°21'W, Little John Creek, pebbly banks, 22.VII.1993, leg. YMM; 5 ♂♂, 9 ♀♀ (YMC), 1 mi SE of bridge on Takhini River on W. Horse — H. Junction HWy, litter in willow grove near alkaline lakes, 20.VII.1993, leg. YMM; 2 ♂♂, 1 ♀ (YMC), environs of Carmacks, 62°11'N 136°22'W, moraine lake, near water, 19.VII.1993, leg. YMM; 3 ♂♂, 6 ♀♀ (YMC), environs of Carmacks, 62°11'N 136°22'W, oligotrophic bog near small lake, 17.VII.1993, leg. YMM. U.S.A., ALASKA: 2 ♀♀ (YMC), Fairbanks, thin alder grove with Gramineae, 25.VII.1993, leg. YMM; 1 ♀ (YMC), Fairbanks, spruce forest with *Calluna*, 25.VII.1993, leg. YMM; 1 ♀ (YMC), Fairbanks, birch forest with willow, alder

bushes and dead litter, 25.VII.1993, leg. YMM; 3 ♂♂, 8 ♀♀ (YMC), Fairbanks, alder grove with thick Gramineae and *Equisetum*, 25.VII.1993, leg. YMM; 1 ♀ (YMC), 61°26'N 165°27'W, Yukon-Kuskokvim Delta, low flow of Old Chevak River, summer 1993, leg. Ye.A. Kretschmar.

DESCRIPTION (based on specimens from Baseghi Reserve, Middle Urals): Coloration as in *P. palmgreni*.

Female. Measurements (n=5). Total length 2.13 (2.00-2.23). Carapace 0.79 (0.75-0.83) long, 0.66 (0.63-0.70) wide. Chaetotaxy: 1:1:1:1, macrosetae short, TmI 0.84 (0.80-0.85). Epigyne as in Fig. 4.

Male. Measurements: total length 1.89 (1.78-2.01). Carapace: 0.76 (0.71-0.78) long, 0.64 (0.63-0.68) wide. Chaetotaxy 0:0:0:0, TmI 0.83 (0.79-0.88). Palp as in Figs. 3, 7-8.

DISTRIBUTION. A circum-Holarctic pattern [Eskov, 1994]. This is the first formal record in northeastern Siberia.

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